

What is claimed is:

1. An umbrella with an integral anchoring structure, comprising:  
a post having a lower end for insertion into the ground, and an upper end for supporting an umbrella top;  
an integral spiral shaped anchoring structure formed on the lower end of the post, the anchoring structure is formed with a width, W, greater than a diameter of the post and a length, L, which is adapted to stabilize a weight of the umbrella and secure the umbrella and the post in a variety of earthen conditions such as sand, lawn, and soil even in a prevailing breeze or stormier conditions; and  
one or more retractable levers integrally attached along the post.
2. The umbrella of claim 1, wherein the one or more retractable levers include arm levers which can be locked into a first position perpendicular to a length of the post to enable application of downward pressure, such as by downward arm force, through a rotational, turning movement of the post to obtain insertion of the integral spiral shaped anchoring structure into the ground.
3. The umbrella of claim 2, wherein the one or more retractable arm levers include arm levers which can be unlocked or dislodged from the first position and retracted into a second position parallel to the length of the post so that the one or more retractable arm levers do not poke, snag, or otherwise interfere with a person moving or situated under and around the umbrella.
4. The umbrella of claim 1, wherein the one or more retractable levers include umbrella further includes one or more retractable foot levers integrally attached near the lower end of the post.
5. The umbrella of claim 4, wherein the one or more retractable foot levers include foot levers which can be locked into a first position perpendicular to a length of the umbrella post to enable application of downward pressure, such as by

downward foot pressure, through a rotational, turning movement of the post to obtain insertion of the integral spiral shaped anchoring structure into the ground.

6. The umbrella of claim 5, wherein the one or more retractable foot levers include foot levers which can be unlocked or dislodged from the first position and retracted into a second position parallel to a length of the post so that the one or more retractable arm levers do not poke, snag, or otherwise interfere with a person moving or situated under and around the umbrella.

7. An umbrella with an integral anchoring structure, comprising:  
a post having a lower end for insertion into the ground, and an upper end for supporting a retractable umbrella top;  
an integral spiral shaped anchoring structure formed on the lower end of the post, the anchoring structure is formed with a width, W, greater than a diameter of the post and a length, L, which is adapted to stabilize a weight of the umbrella and secure the umbrella and the post in a variety of earthen conditions such as sand, lawn, and soil, even in a prevailing breeze or stormier conditions;  
one or more retractable arm levers integrally attached near a middle region of the post; and  
one or more retractable foot levers integrally attached near the lower end of the post.

8. The umbrella of claim 7, wherein the one or more retractable arm levers include arm levers which can be locked into a first position perpendicular to a length of the umbrella post to enable a user to apply downward pressure using their arms through a rotational, turning movement of the post to obtain an ease of insertion of the integral spiral shaped anchoring structure into the ground.

9. The umbrella of claim 8, wherein the one or more retractable foot levers include foot levers which can be locked into a first position perpendicular to a length of the umbrella post to enable a user to apply downward pressure using their feet

through a rotational, turning movement of the post to obtain an ease of insertion of the integral spiral shaped anchoring structure into the ground in complement to downward pressure applied to the arm levers.

10. The umbrella of claim 9, wherein the one or more retractable arm levers and the one or more retractable foot levers can be unlocked or dislodged from the first position and retracted into a second position parallel to the length of the umbrella post so that the one or more retractable arm and foot levers do not poke, snag, or otherwise interfere with a person moving or situated under and around the umbrella when the umbrella is in use and in order to further facilitate an ease of transport of the umbrella.

11. An umbrella with an integral anchoring structure, comprising:  
an upper post section supporting a retractable umbrella;  
a lower post section adapted to attach to the upper post section and having a lower end for insertion into the ground;  
an integral anchoring structure formed near the lower end of the lower post section, the anchoring structure is formed with a width, W, greater than a diameter of the lower post section and a length, L, which is adapted to stabilize a weight of the umbrella and secure the umbrella and the upper and lower post sections in a variety of earthen conditions such as sand, lawn, and soil even in a prevailing breeze or stormier conditions;  
one or more retractable handles which are pivotally connected to the lower post section, the one or more retractable handles having a range of motion including a first position perpendicular to a length of the lower post and including a second position parallel to the length of the lower post; and  
wherein at least one of the one or more retractable handles pivotally connected to the lower post section further includes an actionable hinged portion which is pivotally connected at one end to the retractable handle a distance from the pivotal connection of the retractable handle to the lower post section.

12. The umbrella of claim 11, wherein the one or more retractable handles having a range of motion includes a downward range of motion from the first position to the second position and an upward range of motion from the second position to the first position.
13. The umbrella of claim 11, wherein at least one of the one or more retractable handles includes a hollow underbelly in order to more easily conform the seat to the lower post section when the handle is in the second position.
14. The umbrella of claim 11, wherein the actionable hinged portion includes a single continuous rigid member.
15. The umbrella of claim 11, wherein actionable hinged portion includes an actionable hinged portion having two rigid members connected together at a first end of the two rigid members.
16. The umbrella of claim 15, wherein a first one of the two rigid members is further pivotally connected at its second end to the retractable handle a distance,  $d$ , from the pivotal connection of the retractable handle to the lower post section and wherein the two rigid members are connected together at the first end by a pin.
17. The umbrella of claim 16, wherein a second end of a second one of the two rigid members is freely slidable along the lower post section such that the two rigid member can collectively rotate through a range of motion of 180 degrees allowing the two rigid members to collapse parallel to one another as the retractable handle is retracted downward into the second position.
18. The umbrella of claim 17, wherein the lower post section further includes an integral groove located beneath the one or more retractable handles such that when a retractable handle is in the first position, fully perpendicular to the lower post section the first and the second ones of the two rigid members are fixedly aligned

and the second end of the second one of the two rigid members can be seated into the integral groove.

19. The umbrella of claim 18, when the second end of the second one of the two rigid members is seated into the internal groove with the retractable handle in the first position, a downward force applied to the retractable handle maintains a rigid alignment of the two rigid members, forcibly seats the second end of the second one of the two rigid members in the integral groove and transfers the downward force applied to the retractable handle along the fixedly aligned two rigid members and from the second end of the second one of the two rigid members into the integral groove such that the downward force is further applied downward along the lower post section.

20. The umbrella of claim 11, wherein the upper post section, the lower post section, the integral anchoring structure, and the one or more retractable handles are formed of a material selected from the group consisting of wood, metal, and plastic.

21. The umbrella of claim 11, wherein the integral anchoring structure includes an integral spiral shaped anchoring structure disposed circumferentially around the lower post section greater than 360 degrees, and wherein the integral anchoring structure has diameter approximately 2 to 3 times a diameter of the post and has a vertical length of approximately 3 to 12 inches.

22. The umbrella of claim 11, wherein the one or more retractable handles is able to releasably secure in the second position parallel to the lower post section using a rubber material affixed underneath the one or more retractable handles, wherein the rubber material frictionally grasps a retractable handle in the second position, and wherein the rubber material frictionally releases the retractable handle when a small outward pressure is applied to a lower end of the retractable handle in order to initiate an upward range of motion into the first position.

23. The umbrella of claim 11, wherein the one or more retractable handles is able to releasably secure in the first position parallel to the lower post section using a leaf spring affixed to a top surface of a retractable handle and freely curving between the pivotally connected retractable handle and the post and continuing to curve underneath the retractable handle, wherein the leaf spring frictionally grasps the lower post section in the second position, and wherein the leaf spring frictionally releases when a small outward pressure is applied to a lower end of the retractable handle in order to initiate an upward range of motion into the first position.
24. The umbrella of claim 11, wherein the umbrella further includes a clasping means to secure the one or more retractable handles in the second position.
25. The umbrella of claim 11, wherein the one or more retractable handles pivotally connected to the lower post section one or more retractable handles pivotally connected anywhere along the length of the lower post section.
26. The umbrella of claim 11, wherein the one or more retractable handles pivotally connected to the lower post section includes at least one retractable handle pivotally connected near an upper end of the lower post section and at least one retractable handle pivotally connected near a lower end of the lower post section.
27. The umbrella of claim 11, wherein the one or more retractable handles pivotally connected to the lower post section and having a range of motion includes a range of motion of greater than 90 degrees.
28. An umbrella with an integral anchoring structure, comprising:  
a post having a lower end for insertion into the ground, and an upper end for supporting an umbrella top; and  
one or more retractable levers integrally attached along the post.

29. The umbrella of claim 28, wherein the one or more retractable levers integrally attached along the post include arm levers which can be locked into a first position perpendicular to a length of the post to enable the application of downward pressure, such as downward arm force, through a rotational, turning movement of the post to obtain insertion of the post into the ground.

30. The umbrella of claim 28, wherein at least one of the one or more retractable levers integrally attached along the post includes an actionable hinged portion which is hinged at one end to the retractable lever a distance from the integral connection of the retractable lever to the post, and wherein the actionable hinged portion can seat against the post at another end to lock the retractable lever in a first position approximately perpendicular to the post.

31. A method, comprising:  
    providing an umbrella having a spiral shaped anchoring structure on a lower end of a post, where the post includes an upper end with a retractable umbrella top radiating from the upper end of the post, and a first pair of retractable levers along a middle region of the post;  
    applying the lower end of the post against a ground; and  
    using one or more of the first pair of retractable levers to apply a rotational force to insert the spiral shaped anchoring structure into the ground.

32. The method of claim 33, wherein providing an umbrella further includes providing the umbrella where the post further includes a second pair of retractable levers along a lower region of the post, where the first pair of retractable levers are spaced apart from the second pair of retractable levers by a predetermined distance along the post.

33. The method of claim 34, further including moving the first pair and the second pair of retractable levers into a first position perpendicular to a length of the post.

34. The method of claim 34, further including moving the first pair and the second pair of retractable levers into a second position parallel to a length of the post.
35. The method of claim 36, wherein moving the first pair and the second pair of retractable levers includes releasably locking the first pair and the second pair of retractable levers in the first position and the second position relative the pole.
36. The method of claim 36, wherein providing an umbrella includes providing an umbrella having the spiral shaped anchoring structure, the first pair and the second pair of retractable levers integrally attached to the post.
37. The method of claim 34, wherein providing an umbrella includes providing an umbrella having the spiral shaped anchoring structure having a width, W, approximately two (2) to three (3) times a diameter of the post.
38. A method of manufacturing an umbrella, comprising:  
constructing a spiral shaped anchoring structure on a lower end of a post,  
where the post includes an upper end with a retractable umbrella top; and  
constructing a first pair of retractable levers along a middle region of the post.
39. The method of claim 40, further including constructing a second pair of retractable levers along a lower region of the post, where the first pair of retractable levers are spaced apart from the second pair of retractable levers by a predetermined distance along the post.
40. The method of claim 41, further including providing the first pair and the second pair of retractable levers with a first position perpendicular to a length of the post.
41. The method of claim 41, further including providing the first pair and the second pair of retractable levers with a second position parallel to a length of the post.



42. The method of claim 43, wherein providing the first pair and the second pair of retractable levers with a first position and a second position includes releasably locking the first pair and the second pair of retractable levers in the first position and the second position relative the pole.

43. The method of claim 41, wherein constructing a spiral shaped anchoring structure, a first pair of retractable levers and a second pair of retractable levers includes:

integrally fabricating the spiral shaped anchoring structure on a lower end of a post; and

integrally fabricating the first pair and second pair of retractable levers along the post.

44. The method of claim 40, wherein constructing a spiral shaped anchoring structure on a lower end of a post includes constructing the spiral shaped anchoring structure having a width, W, approximately two (2) to three (3) times a diameter of the post.

45. A method of fabricating an umbrella, comprising:

means for fabricating a post having a spiral shaped anchoring structure at a lower end and an upper end supporting a retractable umbrella top radiating from the upper end of the post; and

means for fabricating a first pair of retractable levers along a middle region of the post.

46. The method of claim 47, further including means for fabricating a second pair of retractable levers along a lower region of the post, where the first pair of retractable levers are spaced apart from the second pair of retractable levers by a predetermined distance along the post.

47. The method of claim 48, further including providing the first pair and the second pair of retractable levers with a first position perpendicular to a length of the post and a second position parallel to a length of the post.

48. The method of claim 49, wherein providing the first pair and the second pair of retractable levers with a first position and a second position includes releasably locking the first pair and the second pair of retractable levers in the first position and the second position relative the pole.

49. The method of claim 48, wherein means for fabricating a spiral shaped anchoring structure, a first pair of retractable levers and a second pair of retractable levers includes:

means for integrally fabricating the spiral shaped anchoring structure on a lower end of a post; and

means for integrally fabricating the first pair and second pair of retractable levers along the post.

50. The method of claim 47, wherein means for fabricating a post having a spiral shaped anchoring structure includes means for forming the spiral shaped anchoring structure having a width, W, approximately two (2) to three (3) times a diameter of the post.